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Department Mov. Bioc. Subject 10/20/94 - 0	z/oz	195
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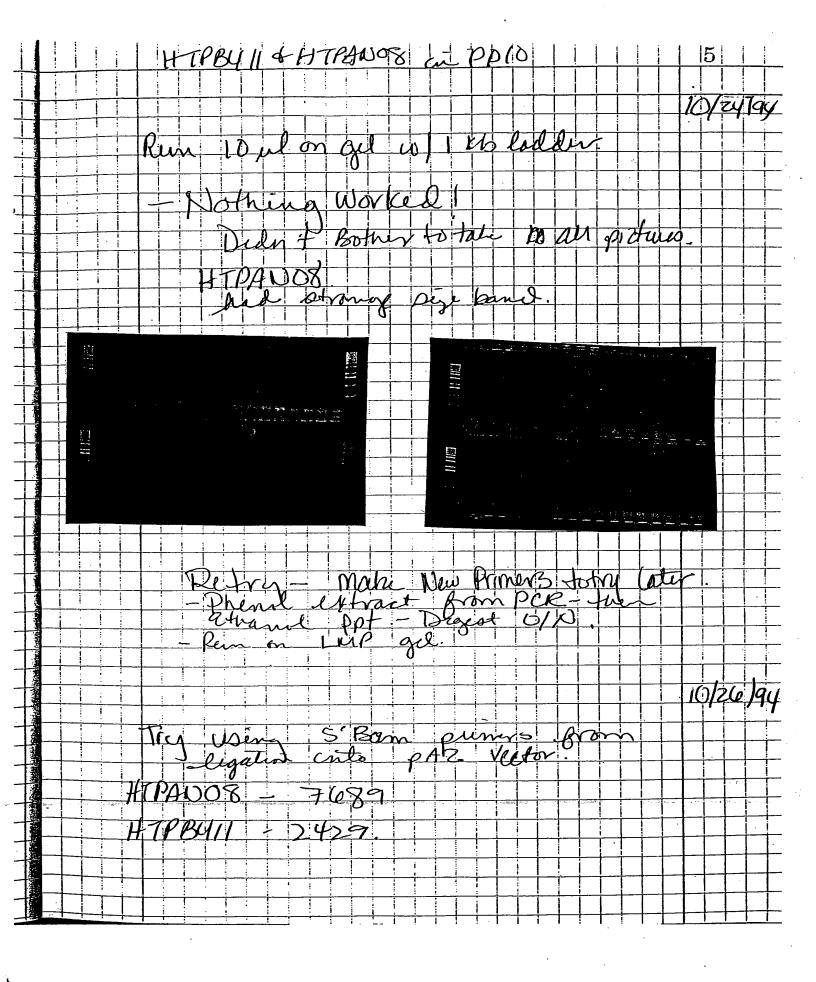
Ruben EXHIBIT #91

	HIPBYLL a HTPANOS in PDIO
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	10/24/94
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Department Mor. Bioc Subject 10/20194 — C Name ANN KIM	02/02 #	195 8
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Ruben EXHIBIT 2091 Ruben v. Wiley et al. Interference No. 105,077 RX 2091

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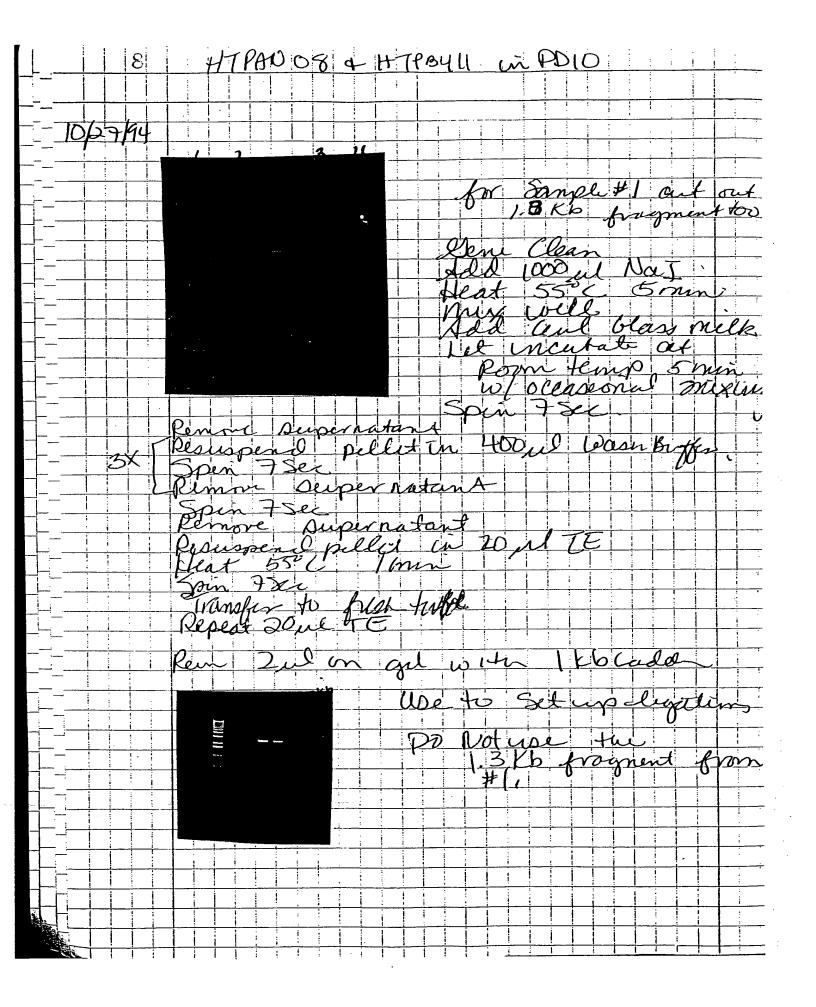


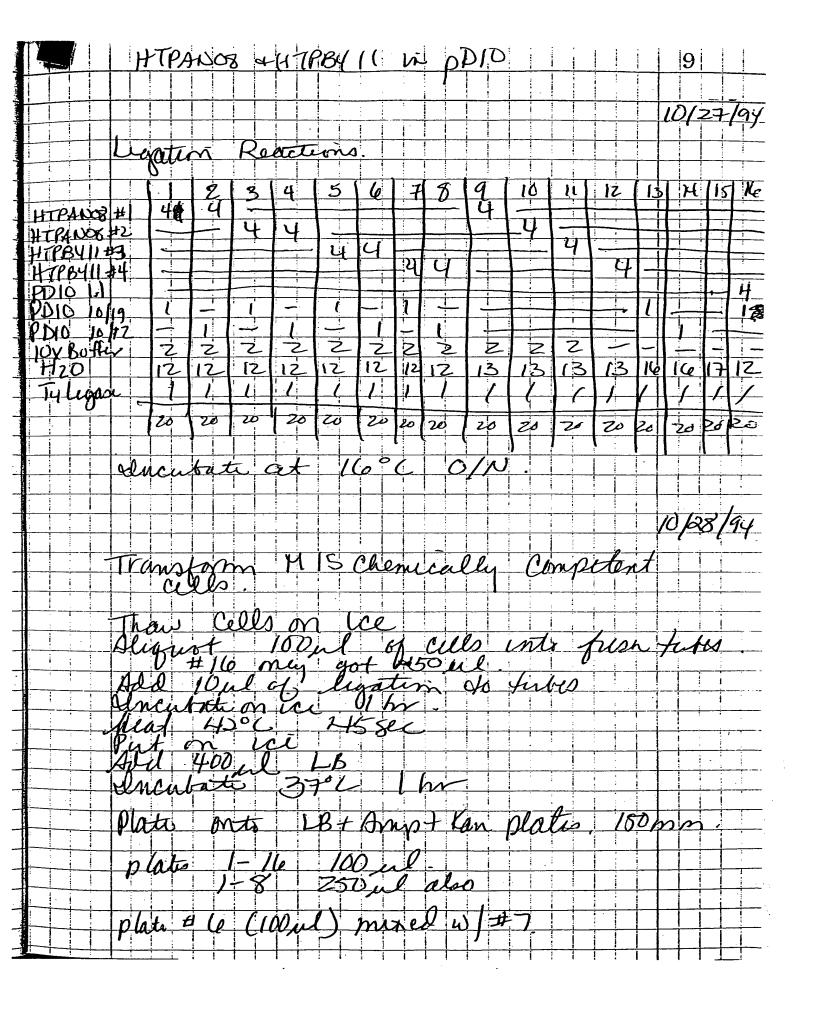
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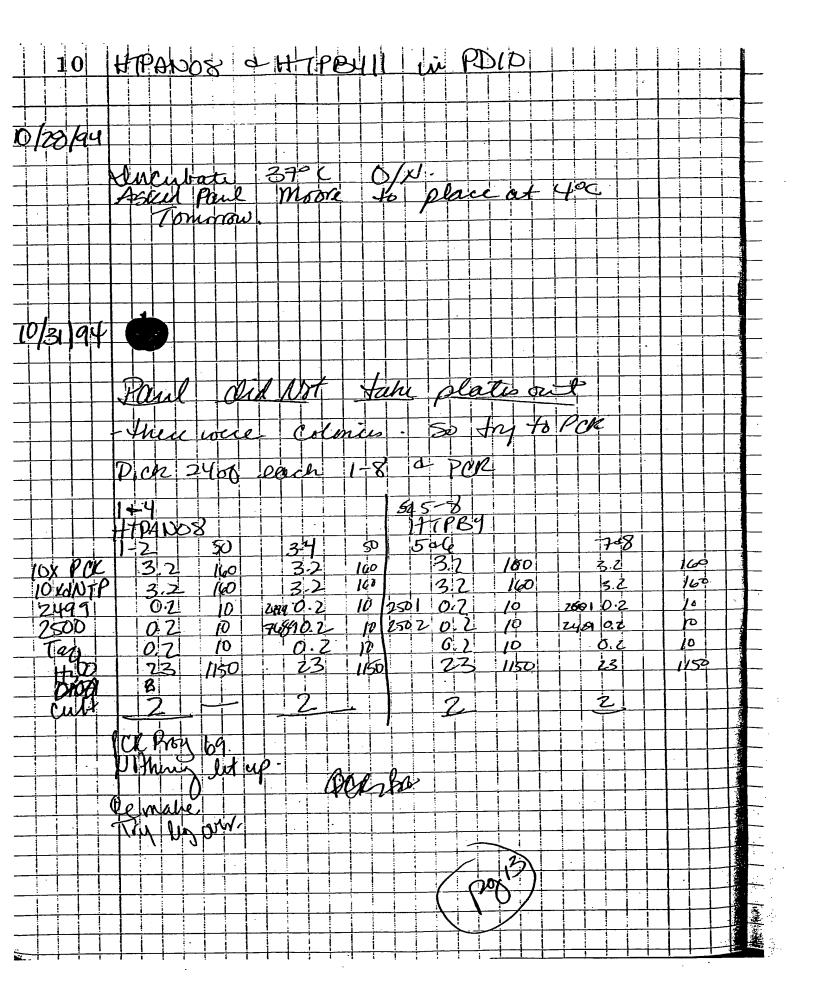
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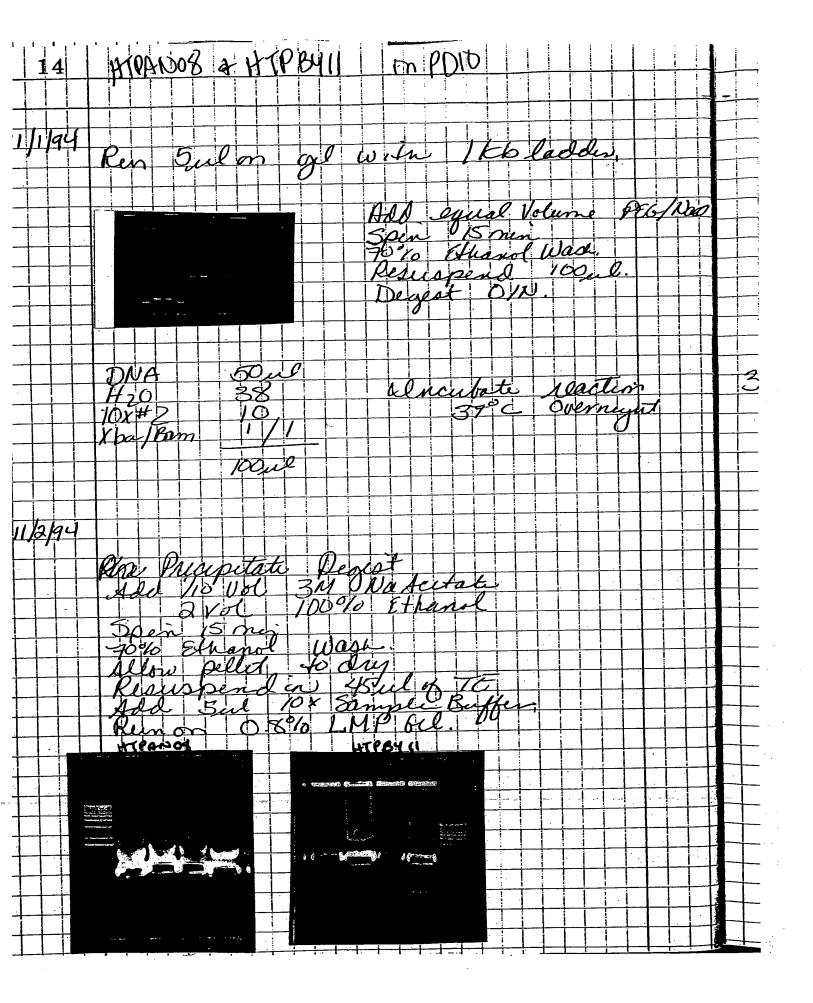
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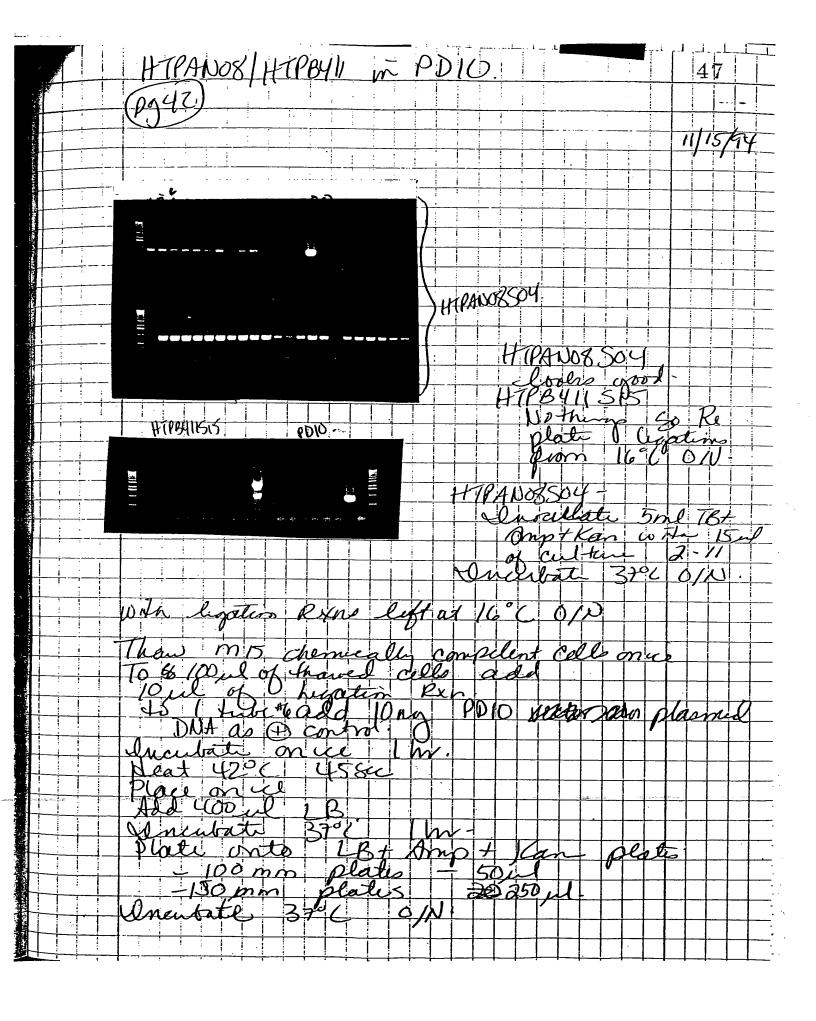
1116814 + 2008 + H168111 12 6010 11494 Readin on getwon the up again Talked w/ Stevea venate Doth HTPAN + HTPBI a3'to kba 5 Bam 11/8/14 BIXDA HTPRYII Oligo Redd 11/10/94 Recod HTPBYY 11/194 3 Yran Nov HTRANO8: 11/12/94 Wild Olizas Reactions WIRW Plimers

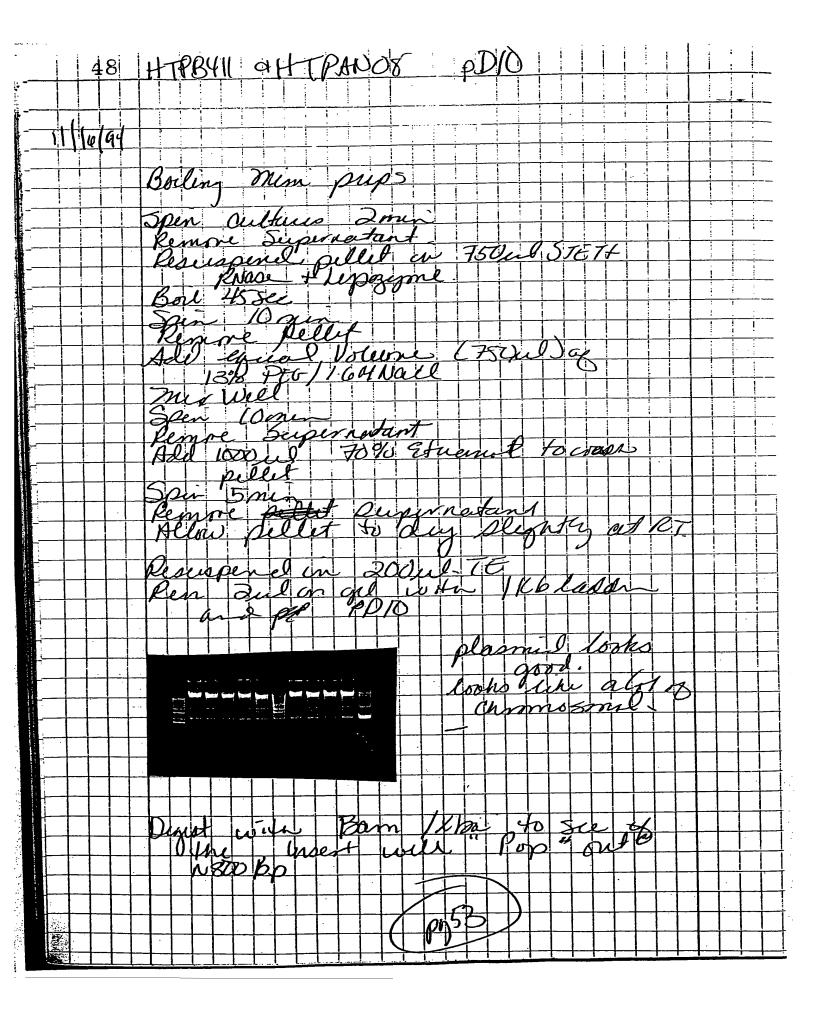
HIPAUOS/HPBY/ In PD/O 11/19/94 HTPBY11S15 0,6 6.7 5' Bam New 10 IN aNTP DYUNTE 10 HD modified #69 MH 5min 1/2 min PFG- MACO 100 d IOX #

40 HTPANOR HTPBYII in PDIO 11/14/94 auram digit on ad Se p. 39 Cut out fragments Gel Extraction 11cblador ooles 2000

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PDIO 24 1 1 1 1 2 2 2 2 2 2 1 2 1 2 1 1 1 1
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Set up 2 sets - I for 16°C overnight A-1 set for RT 1 hr For A-1hr at RT Long 100 1 1 150 Chem Comptent Cells Let act on us for 45 sec Plate and B Next 37°C 1 hr Plate and bBT Amp Ham plates Journal 37°C 1000
Set up 2 octs - I for 16°C overnight A-I set for RT I hr Box A- I hr at RT Hung Don't Ligation 100 nl Li
Hong How A- 1 My at 27. 10 L. Ligation 100 L. M. 15 Chem Comptent Cells Let Out on we have 42°C 45 sec 100 Place on we Heat 37°C 1 M Plat onto LBT Amp Han plates 100 mm - 50 cl 100 mm - 50 cl 100 mm - 200 ml 100 mm - 200 ml
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Hong Box A- Im at 27 10 1 Ligation 100 1 M 15 Chem Comptent Cells Let Out on we have 42°C 45 sec 100 Place on we Heat 37°C Im Plat onto LBT Amp Han plates 100 mm - 50 wh 100 mm - 50 wh 100 mm - 200 ml
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10, l. Ligation 100, l.
Del Water Comptent Cells Let Art on ce In heat 42°C 45 sec Place on ce Fred 400 el IB Heat 37°C In Flat onto IBT Ampt Kan plates formon - 50 el Our Hall 37°C ON
100 pl 1915 Chem Comptent Cells Let Out on ce In heat 42°C 45 se Place on ce Heat 37°C Ihr Plat conto 1Bt Ampthan plates formon - 50 cell a (50 mm - 200 pl
Let Out on ce heat 42°C 45 see Deat 40°C 45 see Heat 37°C 1hr Plat conto LBT Amp 1 Kan plates Journa - 50 cel O 150 mm - 200 cel
heat 42°C 45 Sec B Place on acc Flat 400, IB Plat onto LBT Amp Than plates Journa - 50, IB Out 150mm - 200, IB Out 150mm - 200, IB
heat 42°C 45 Sec B Place on acc Flat 400, IB Plat onto LBT Amp Than plates Journa - 50, IB Out 150mm - 200, IB Out 150mm - 200, IB
Had 400 is IB Leat 37° C [In Amp # Kan plates Flat conto LBT Amp # Kan plates formon - 50 is I O 150 mm - 200 is Out what 37° C O/D
Plat conto LBT Amptkan plates formor - 50 ul (150 mm - 200 ul) (140 ul tall 37 00/10
Plat onto LBT Amptkan plates formon - 50 cl (50 mm - 200 pl Out what 37 00/10
Plat onto LBT Ampthan plates. Journa - 50 cm Os 150 nm - 200 cl
100mm - 50 ml 0150mm - 200ml Augustrale 37 CO/N
Que 150mm - 200ml
Augustall 37 C O/N
W/s/au
11/0/94
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No colones on lig Rian alone

	2 HTPANUS (HTPBY/ IN PDIO	-
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	alnowate 37°C 4ms.	- i-
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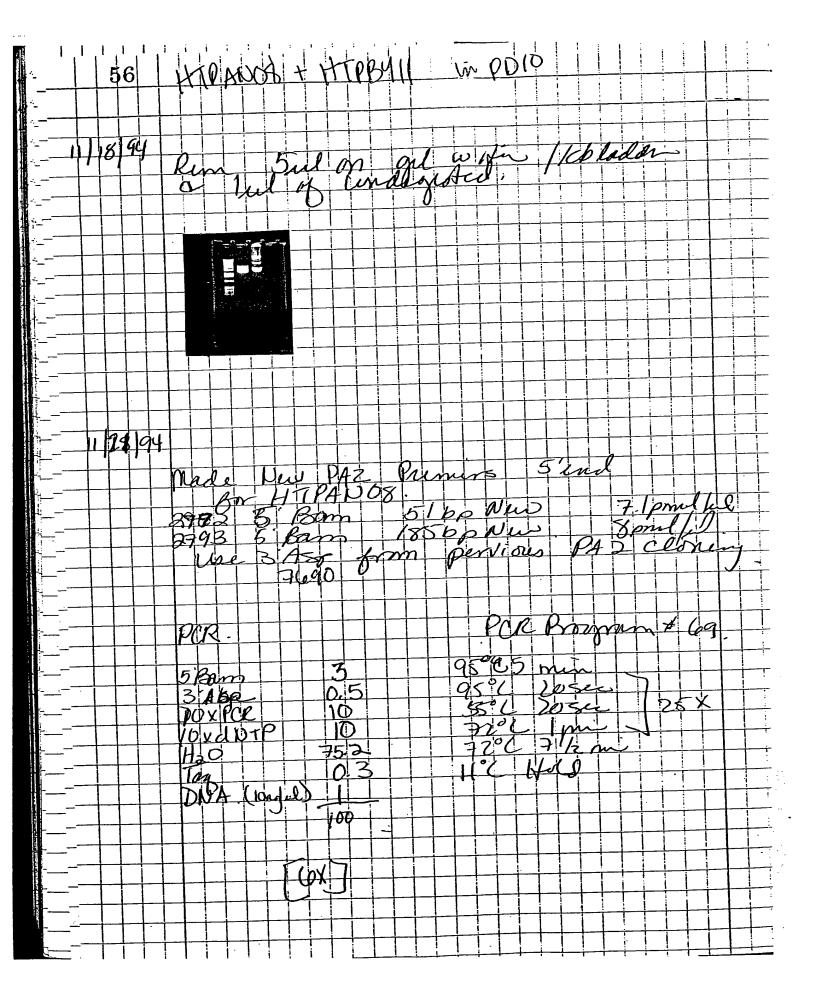




PANOS & HTPBYIL 12 RAPO. HTRB41

$\frac{1}{54}$	HTPANOS = HPERCET/L+TPBY/11 in PD/O
111794	
	Some Colonies only
	Par the Today (B+ Ann) + Kan
	Incubal 372 4WS
	POR-
	5 8am 2 T use HTPB41/515
	10411 3 3 1 3 1 1 2 Del 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	10×dNTP 3.2 fragment as Tas 0.2 positive Control
-	H20 20.7
	Cuffee 3
	32.
	Pen (Oul on get with 1 Kb ladder.
-	can tour on an
	Droke like in
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	Insulati
	50 ml TB+Oup
	Water # 20
	Incupate 370
11/18/94	
	Chayen Modeful Mide
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27	

HTPADOS aHTPBYH in PDIO 55 Add 7 ml P2 Musi gently Add Amel I تسع 2X Mari (C. Frolunia) Lopropan d In 1.6727 6.5708 with DNA



HTPANOS + HTPBY! 5 ul on gel Deget fragment Bam /Ana DUA H20_ 10x#Z 50 ul

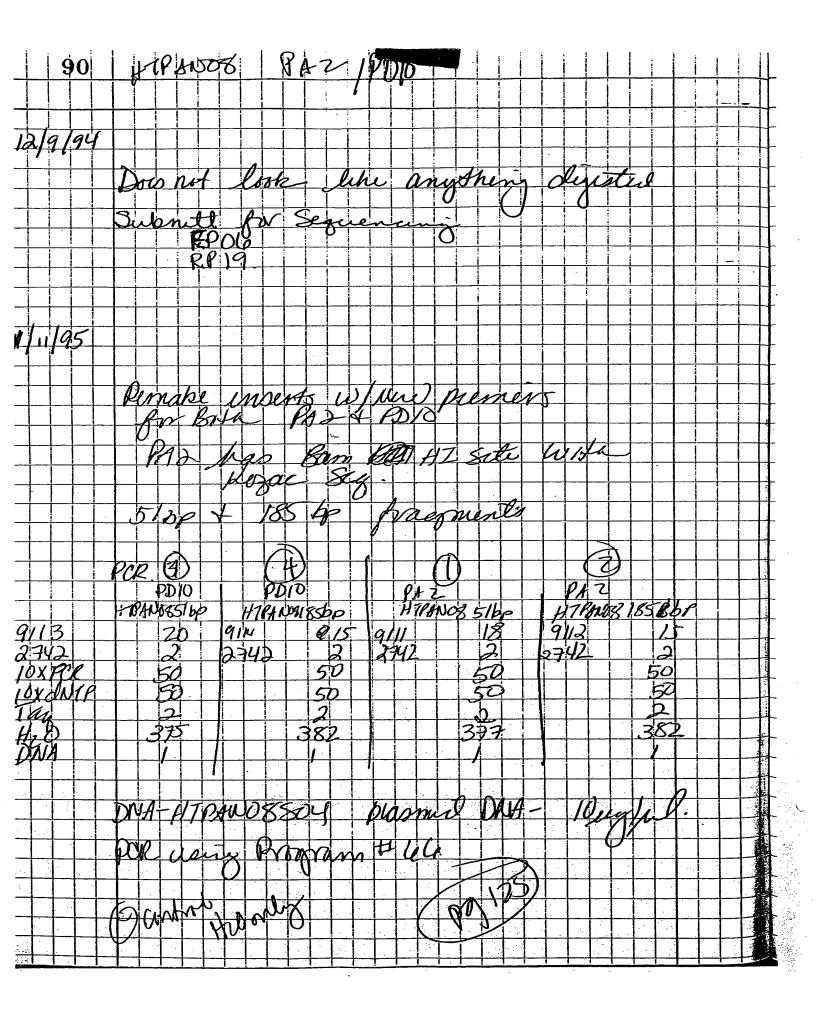
	58 HIANOS PAZ lix
<u></u>	
	194
	Usolation 0,80/2 1 MPGel 9
	ALAIS (VIAA)
	1 sec pg (1Z)
-	
	Set up ligations
	
	185 bp Ram (Asp 10
	185 bp Bam (Asp 10 51 bp Bam (Asp 10 PAZ Bam (Asp 10 10 x Buffer 2 2 2 Ty Udase 1 1 1 1 1-170 10 6 10
	10x Buller 2 2 2
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	Transform into 1115 Cells
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	M5 Cells Contaminalist (Pale!)

PDIO B/HTE / HIANOS Frey / Diasel frag. Lene Clean of

HPECC91, HEROTUZ HE20142515 4) HPECCALSIY HEROLUZSIY HPRCCAISIY TB+ Amp HTPANOS SOU 516p (1866p in PAZ Take plats on the Barn 185

HTPANOSOU 5/bp/1856p in PAZ 12/7/92 PCR 66 71/2 m 1% HIPANOS 504 85 bp HTPANOGSOLL 3160 185 pp Prok @ HIPANORSOY

HTP4W08 They will pelyt 20 ul & TE H20 10x=Z Bam



POECEO Do Bam Victor 97
12/19/94/9
Digist POE60 = 0.54 mg/l.
DNA 4 5 101 40 40 25
Nco50
Uncubate 37°C 0/N
Run 2 ul on gel with 1kb ladder
Looks good. File 5 w 5B LMP Gel. Run on 0 8 10 LMP Gel. Cut out fragment. Take Pichere Clean.
Heat 55°C 5 mm Mry well Mry well
Spin 10ses missing Flemont Supernatant Resuspand Sillet 500cl 3h Wash Buffer

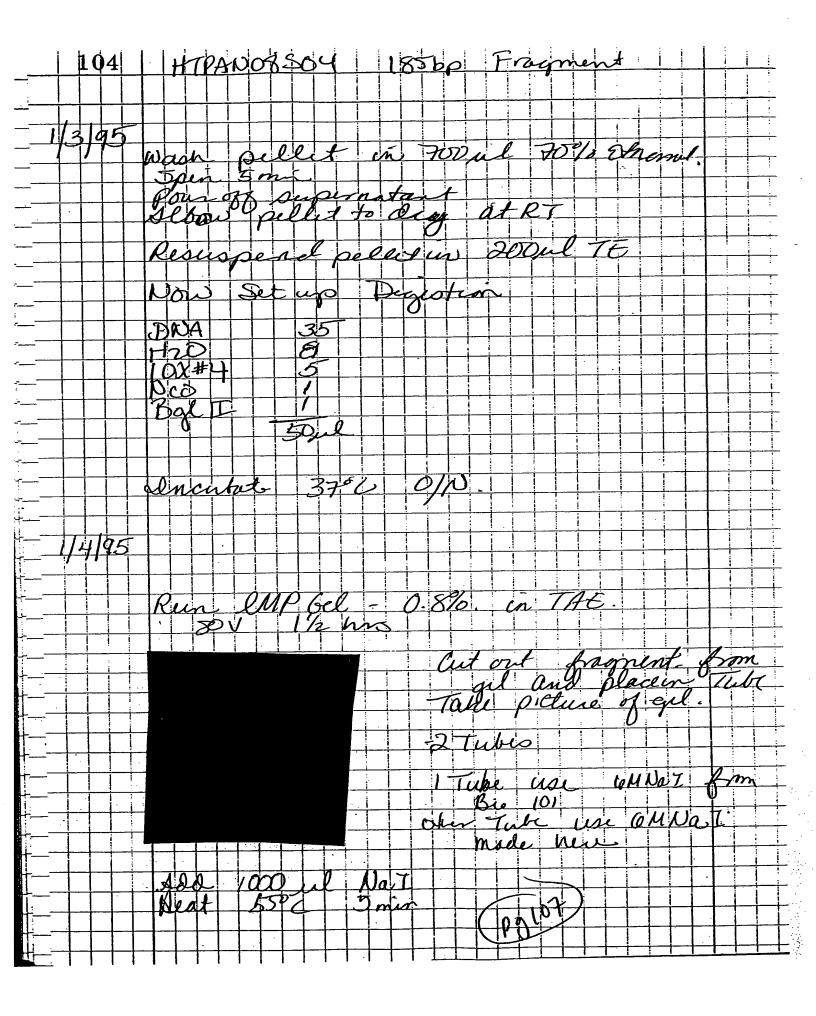
1 / 1	HTPANOR HTPBYII IN POELO	99
<u>-</u>	HTPANOS/HTPBYII in POECO	
		1:11!
		12/20/
	PCR	
	HTPAU08504 3 No. 1 /3 Ball	
	HTPBY11515 5' BSOHT Bam HT	:
	for lightion cuto POE 600	
	HTPAN	HTPBY
	5'Nco I 20 5'BSPHI (516P	
) 20
	IDEABTP 39 LOXANTP	301
	10x10x 38 10x10x	30
	H_{20} $\frac{234}{}$ $\frac{Fh0}{}$	235
-	DNA (conglet) I DNA (roughed)	: /
	DNA (lotality)	300
	Set up RKn W/O DNA (30, 1 sol A	otal)
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_5	95°C 2000	· , — —
- 5	65 C 2032	
39ul	72°C /m - 7/2 m	
0.5	4°C hold	
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	Soit 10 min	THE PARTY OF THE P
	Remore Supernatant la	
1,1	Wesh 1x 70% Potrand (covered)	1
	San 5m 111	
	Remon suprostant!	
	Allow pullet to dry at K (10mm	
	Pearspard in Devil To	

100	HTPANOS HTPBHH in PQEGO	
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12/20/94	4	士
×	Rem 50 pl on 0.8% LAR gel	丰
	80 V 16 ms	+
		土
	Cent out fragments	
	Dene clean	÷
-	Reserspend - Total Bout To	三
	••	<u> </u>
	Run Jul on gel with	<u>:</u>
	1 El lader	_
	looks good-	-
		=
Set	tup degistrons:	<u>.</u>
		<u>-</u>
		
	DNA 300	
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	10x#4 5 HTPBY/1 BSpHI/Ben.	_
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	30ml	_
	mentate 3706 0/10	—
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12/22/04		
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	Run on D. 5% I MP out 11 sty	
	11/10/10/10/11	
	80 V 1/2 has	

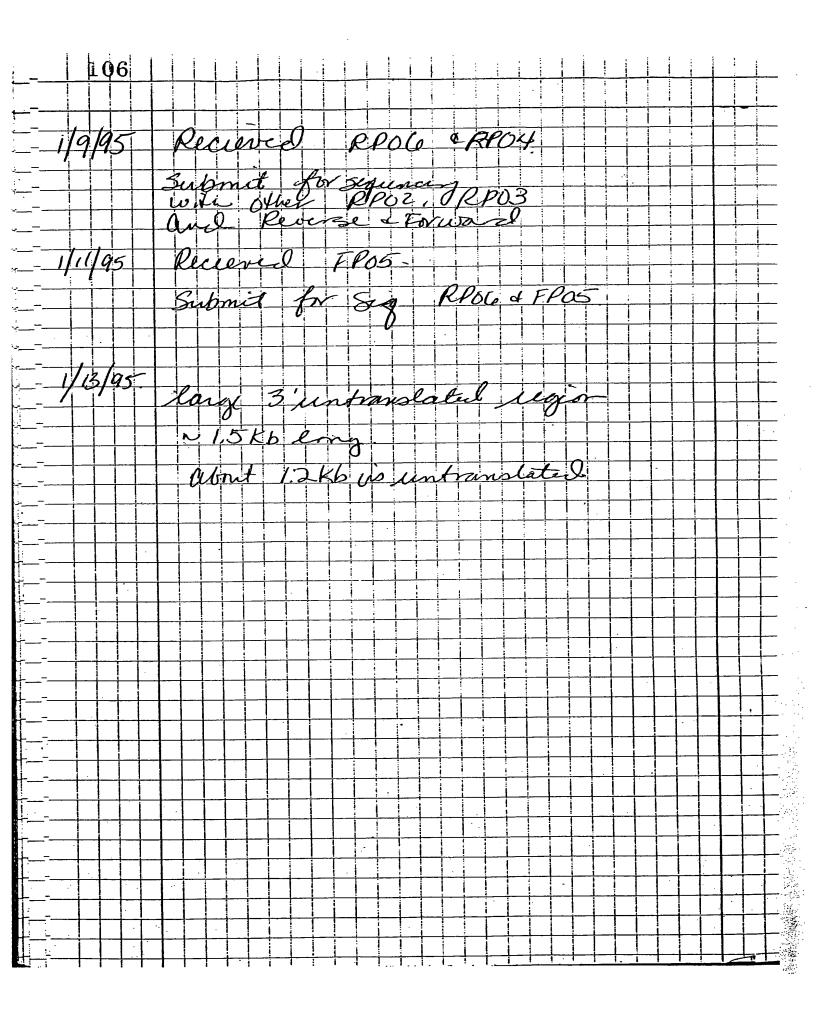
	HTPBNOS HTPBUIL IN POECO 1111101
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	Bet up ligation
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	700000000000000000000000000000000000000
	Suculate 4°C.
	1/3/95
	Transform MIS rept allo
	_ Chemically Competent Clang
	To cool of cills and Wint of Lyation
	To take add loul of the only

102 Heranos [HTPSYLI in POELD excubate on ice /hr det set on ce 2 mes Uncubate 39°C Plate onto 2B+ Amp + Kan plates 300 100 1 400 1 200 1 300 1 300 1 300 ligation Right PQT 60 10nis 100 d MIS Cells aby 300 d 300,00 spead Evenly with, Incutate 390 0/N 1 95 Oll plats onew-Even m15 Cells alone and legation Contaminated lang - Said he would test all a mars Medi Redoring legation worth HIRANOSSOY [85

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	HTPANOSSO4 185 bp Fragment	103
		!
	<u> </u>	18/28/9
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	PCR HTPANOSSOY 185 bp fragment for PQELLO NLO (BY) II	;
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	10x PCR 30 The H2C	200
	LONDIP 30 TABLE HOO	
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1	5 NCOI 1854 20 3 Byl II 300.1	
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	95°C 5mm	- · ;
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:	Wazer Im	
	175g	1
	Hold.	
	Store 4°C	
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	Ald sand Volume 13% to	PEK-1
	Len vace	!]/! !
	Machitel on ce 10 mil	
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	Pour up surper notest.	
	pour of super haves.	



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	(2) 500					
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HTPADOZ SOU 1856 Fragren Despernatan as much of Supernertant as gel with

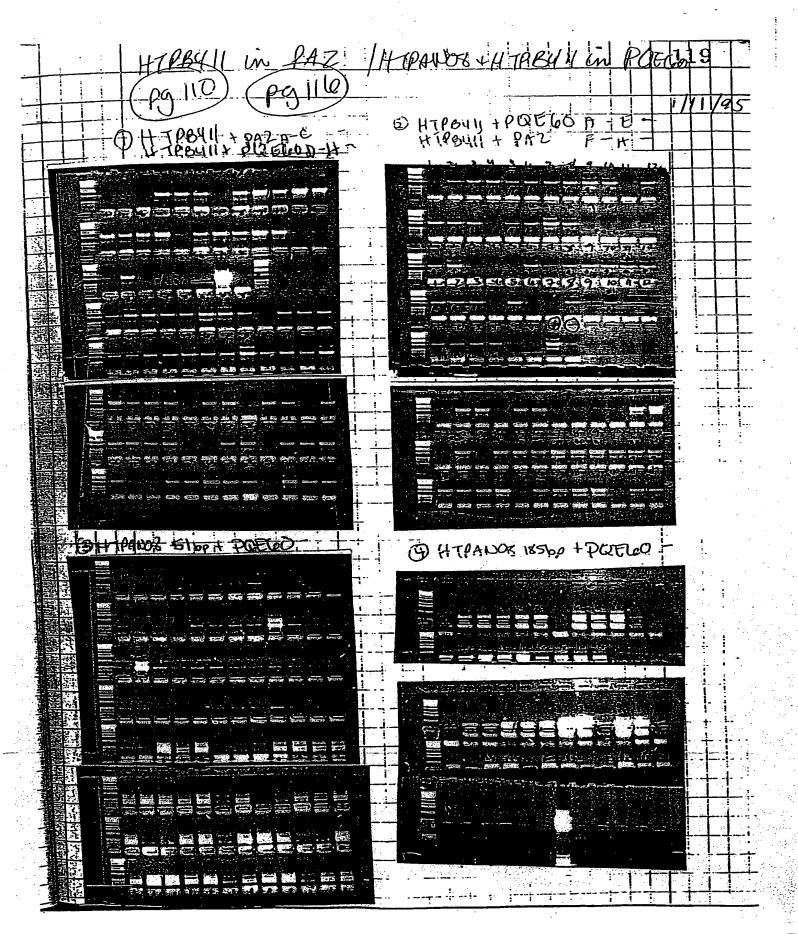
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Mari Prep HTPANOSSOY/HMEATS Inoculate 200 ml TB+Amp from frozen 3to cus of HTPADO 8504 HMEAA 88A w aeration meralight 15/95 mayi Prep 15 min Dupernate 10ml P.1 Ruase - ce cold 20 min with to tep throw 30ml 0.7 Tongs & volumes

112 Mayi Prop HIPANOSSOY, HMEADSS	!
- 1/5/95	
Spin 8K 15min	
Allow O pellet to dry-	
with parafilm whole covering)	
1/6/95	
	-
Reserspend pellet in 400 al TE	
Run ful on gel with Ikbladds	··-
Deliste 1:100 in H20	
Read OD200:/280.	
260.0 ma 280.0 ma	
Sample abs abs bkg abs ———————————————————————————————————	·- ·
1 1000000 0.0402 0.0319 0.0231 1.9374 0.5161 0.2 mg/ml	
looks like HMEAASS is all chromosonel	
	·
- 1/9/95	
- Tour sound on the street of	<u> </u>
Boling Prip DNA to get	- -
- clane)	<u> </u>
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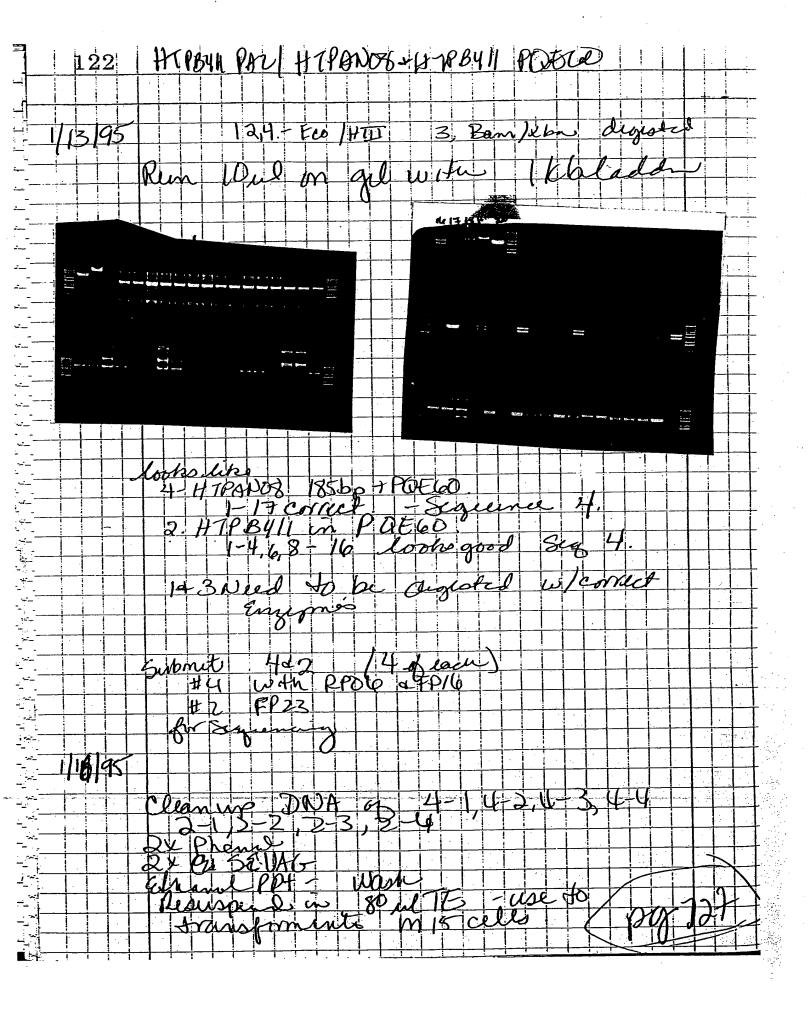
HEROSE AGRECIA CERS HTRANOSTATRALION P 9 108 mu 2 min 400,2 1/2 /2/ [R+Amp onto states 150mm Yansform 12/23 rom 3700 Quentate LBtAmp 15 Cells on m LB+Kar LB+ Omp/Kar 1/10/95 Plates look good No Contamer M15 Cells hil on So Contaminal reates pretame cella Use MIDI (P) B+ Amp 1 es onlo will HTPBYII HTPAN 08 Parie Vector

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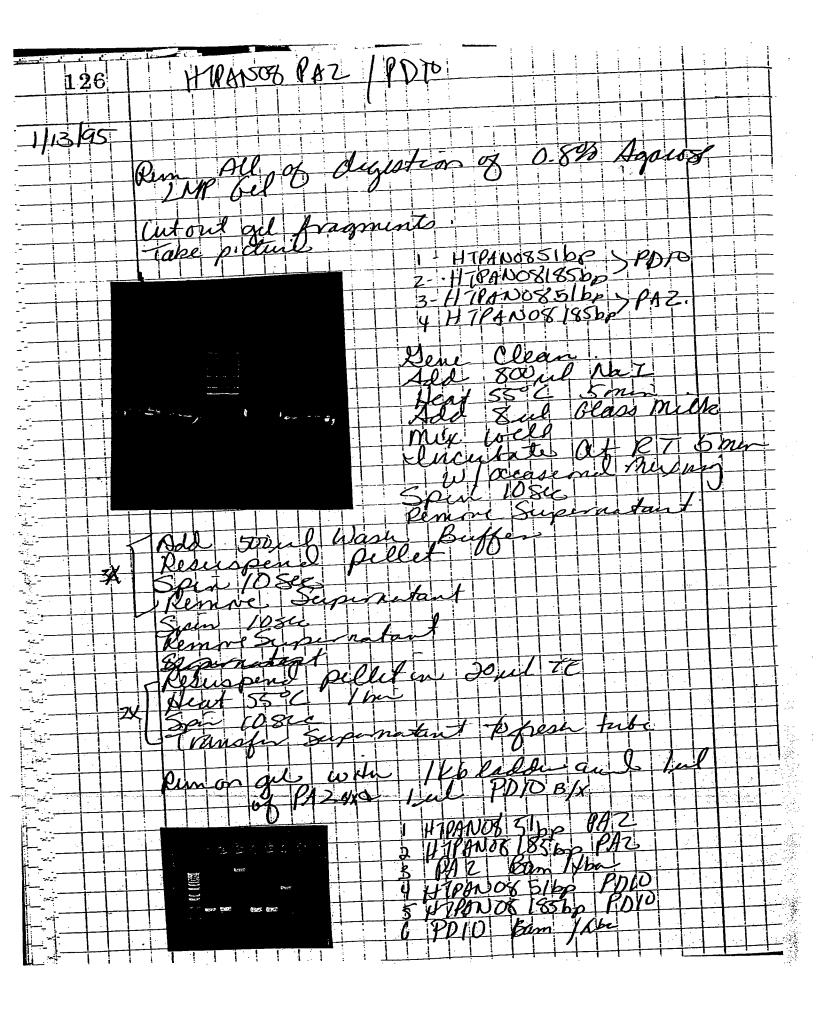


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	HIPBYII PAZ HTPBY 11+HTPANOS POECOO. 1 121
1	50m 5 min
	Remore Ethans
	Remore Ethansl Allow pellets by Bry at PT for 30mill Resuspend pellets in 100 ml TG
	Run Jul of Minispreps on 1º/s TAE
11	
<u> </u>	
***	mx upin lateling - Des really #3
	#Dis really #1
	Set up digiotims
	the For Pateo. Por PAZ
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SON	10 1 70x 2 40'
	[teof] 0.2
Andreas de la companya del companya della companya	HIII - 0.2 11 You 00 4
	134 54 230/ 01/11
	Incubate 37C 0/N Digist HTPAN08504 HTP8411515
	PAZ & POEGO.



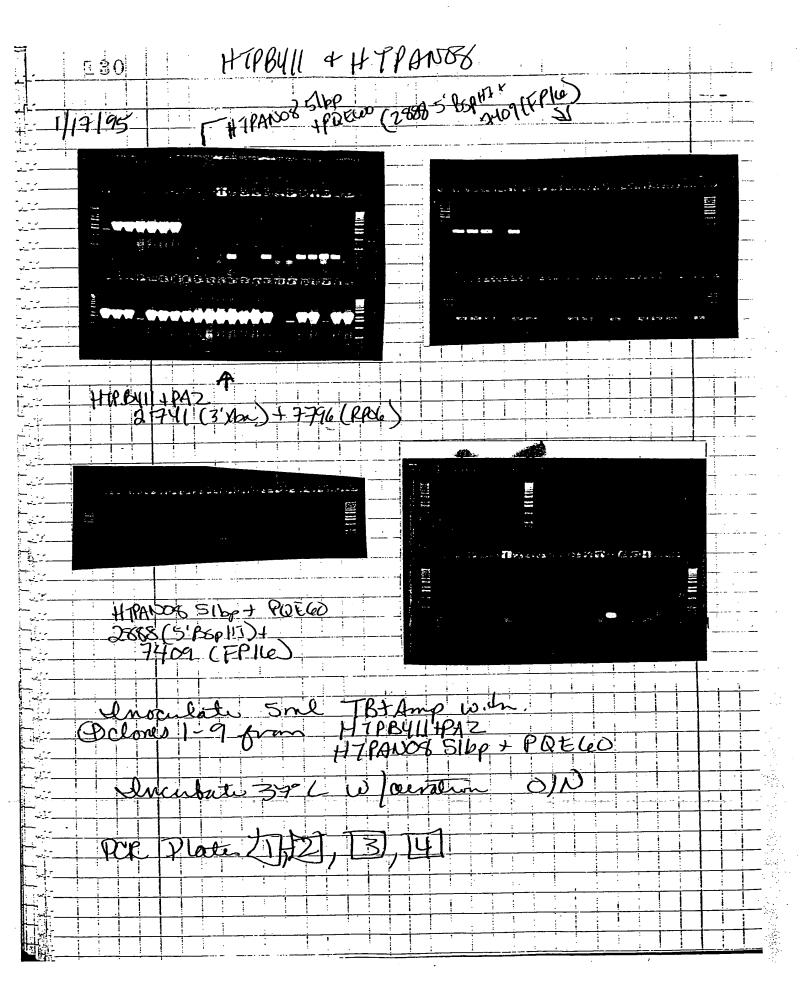
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	(ps/0)
	95° (5mm
	195°C 7094
	550c 705ci 30V
	1326 7 Span
	14°C Hold
	11/12/95
	Ren 5, l on get with 11 bladder 1973
	3- HTPAWOS 51 be for PAZ
	24 - HTPGOOD 8 155 bp for PAIZ
1/1	1-H7PAHOS 51 by By PDIO
1/sho	2- HIPANOS ISSUP FOR FILM
2	
	Precipitate Ald carial Volume
	13% PEG/Noce
	Wash Dellet 1000 P 701/2 Ethant
	Spin Dar
	Rignord Superaction to
	Set up daystem
	DNA (PCR Fragment) 20
	10 x # 2 Buffer 14
	1 Ram 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Kom 0.5
	1 40 l
	Unculate 37°C Oversignat
	
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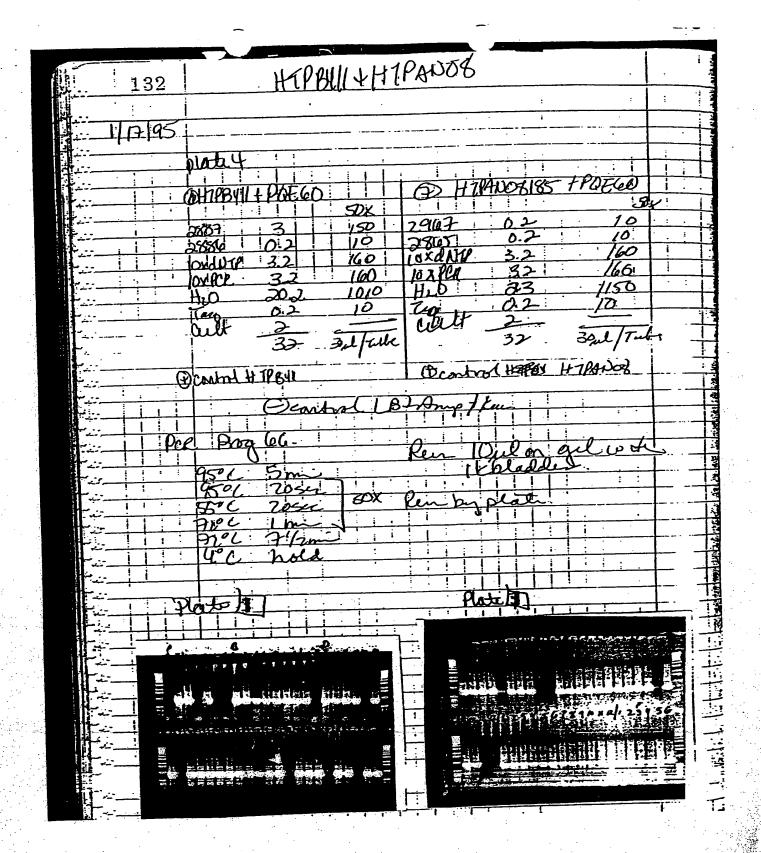
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	HTRANOS I HTRE	41 PAZIPDIO	127
	pg 172		
	Set - up ligations		1/13/95
	1 2 3 4 5 4 5	7 8 9 10 11 12 13	
	HTPANOR 51 942 6		
	HEPANOX 510 PDIO HT(AU 00) 155 PDD: C	6 6	
	H 188411 POID.	222222	
	Ty Liagae, Will		
	- PDIO Bam/xbu- 222		
our	Set up ligations on a	is the weekend	
1			114195
	Than M15 Chemical	ly consitent o	ells
	To todal of Cella	add loud	150
	DI Tube & M. E.	7/13/25 and	May PD/O
	Next 42°C 4550	The	0 0
	Add 400 LD 1B		
	Pats onto UB+	Amja 1150m	mplates
	- garnere Dua	- plate 50	t op l
	- mys cells plate	300 100 100	
	Incutat 372		
			HHH
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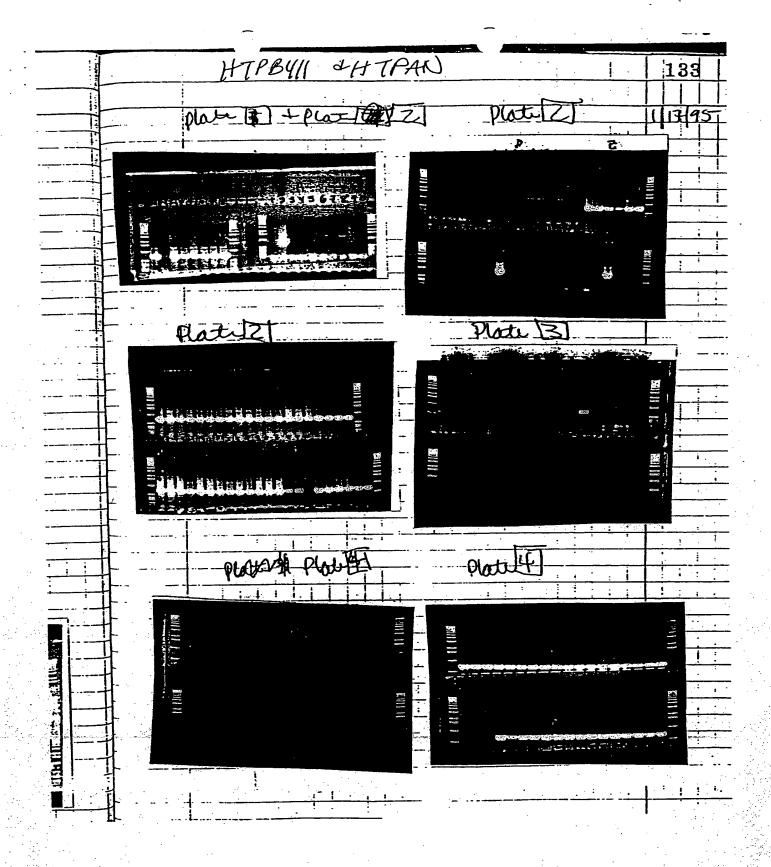
128	HIPBUIL + PHEPANOS
1/16/95	
	IL-DRUIL-DA2
10	110/95 Transformalin
	Pich 96 Colonia lite B+ Amp
-	
	HTPHUOR SIBOL + POTGO
	101/95 Transformalini
	1 48 from 15 195 ligale
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	Muccepate 370 10 Jacob all
-	
- 1117-95	
	What have the form with Cold to the
	Transformations worked well-
	No Colonies seen on
÷-	fragment only Plats
! !	2-125 colonido delmon
÷-	No Colores on MIS cells alone
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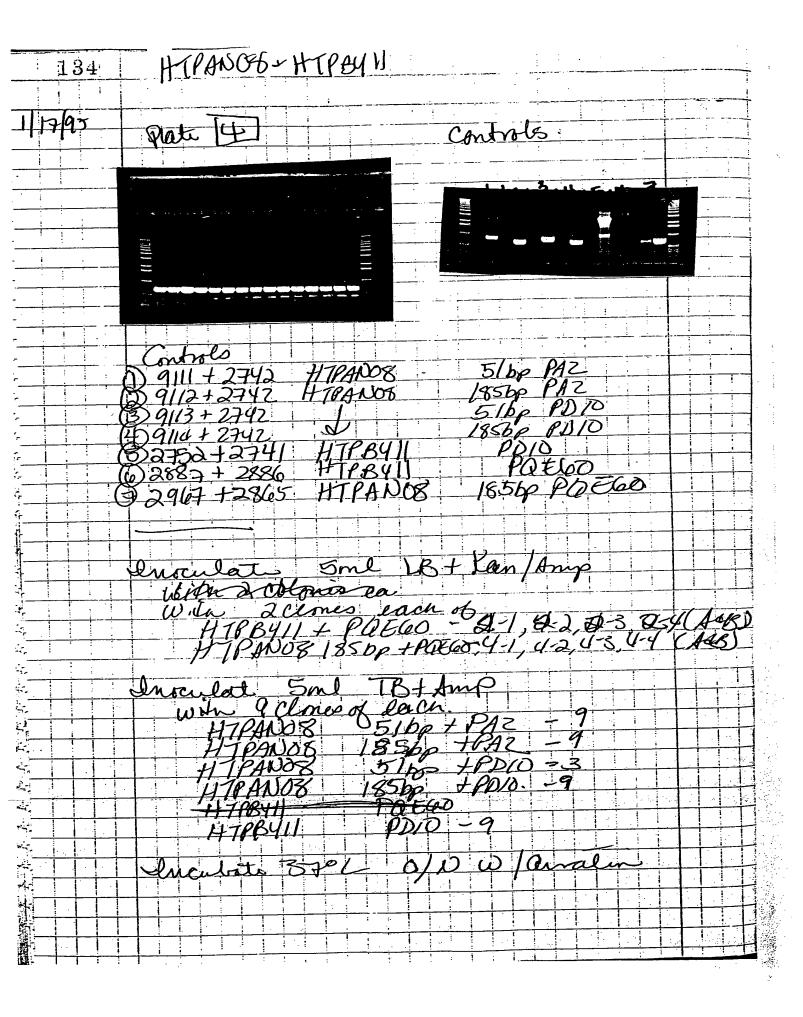
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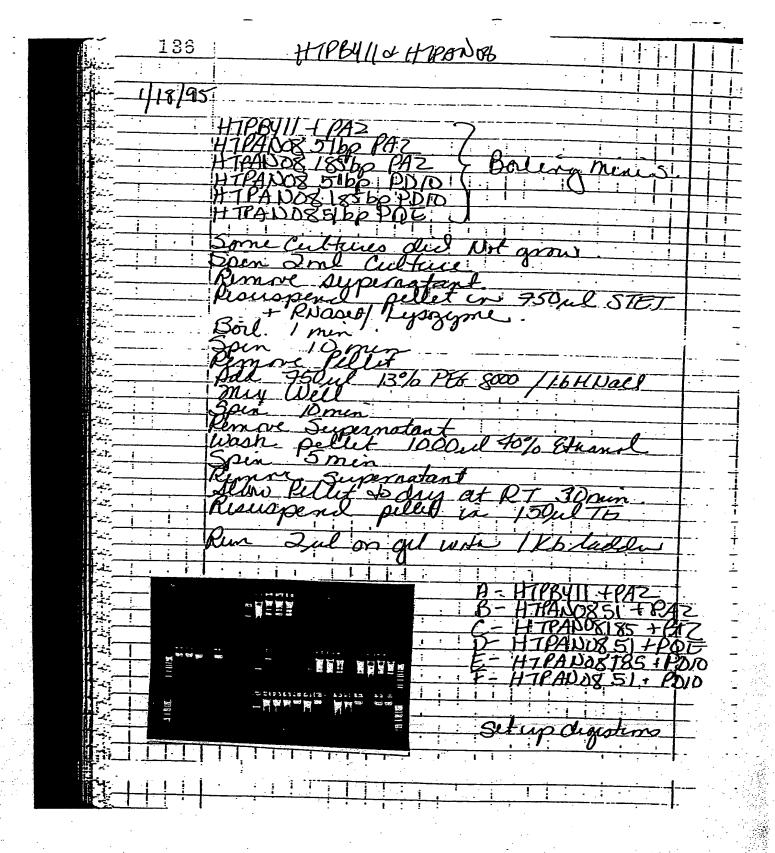
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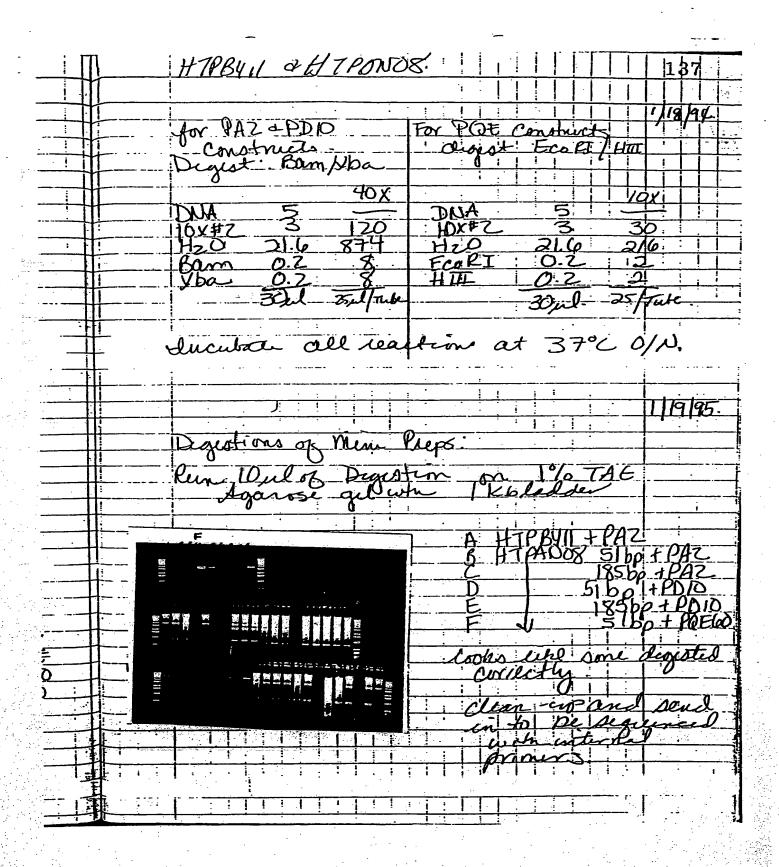


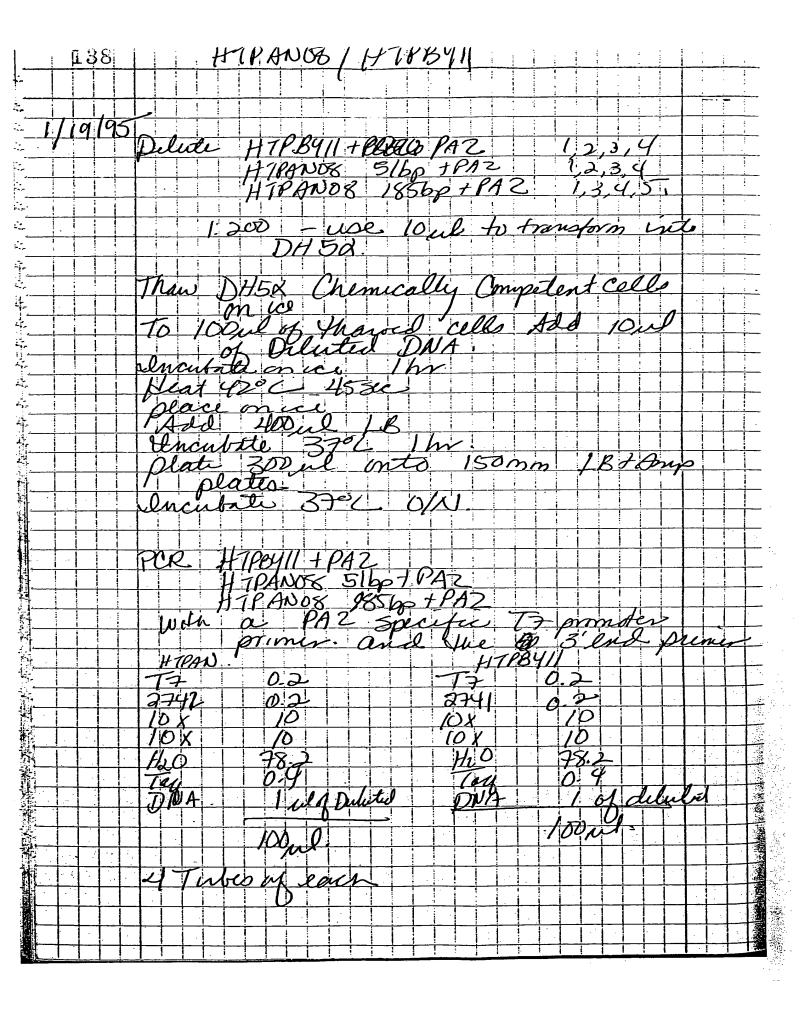




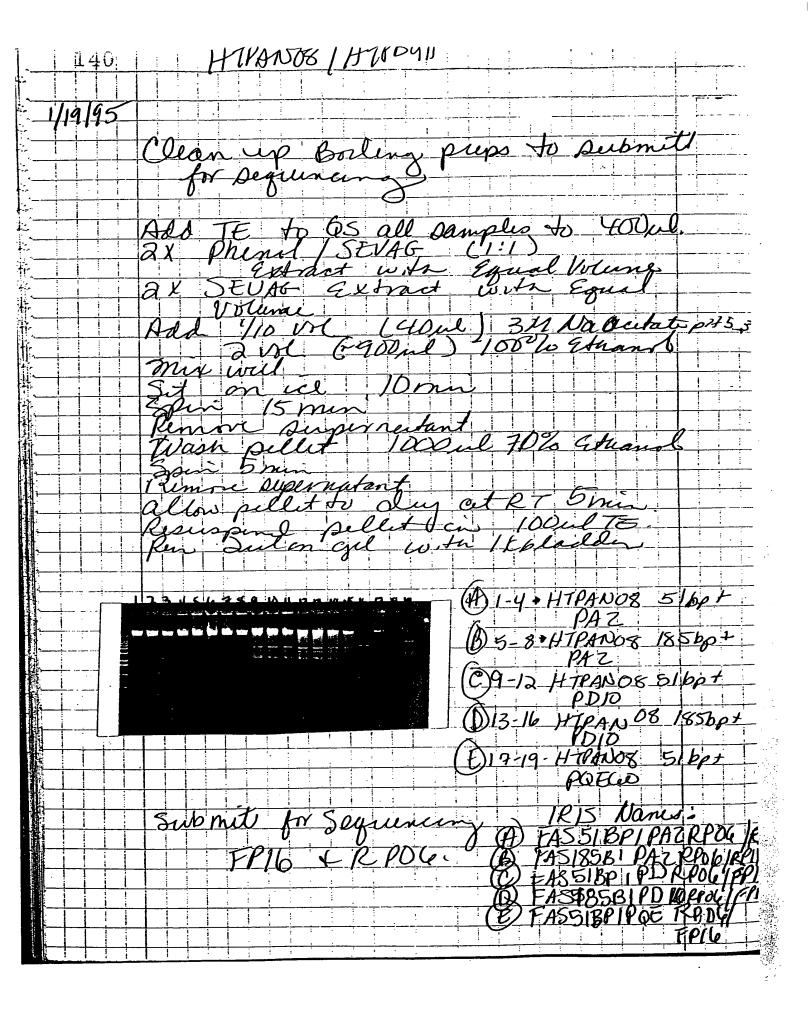
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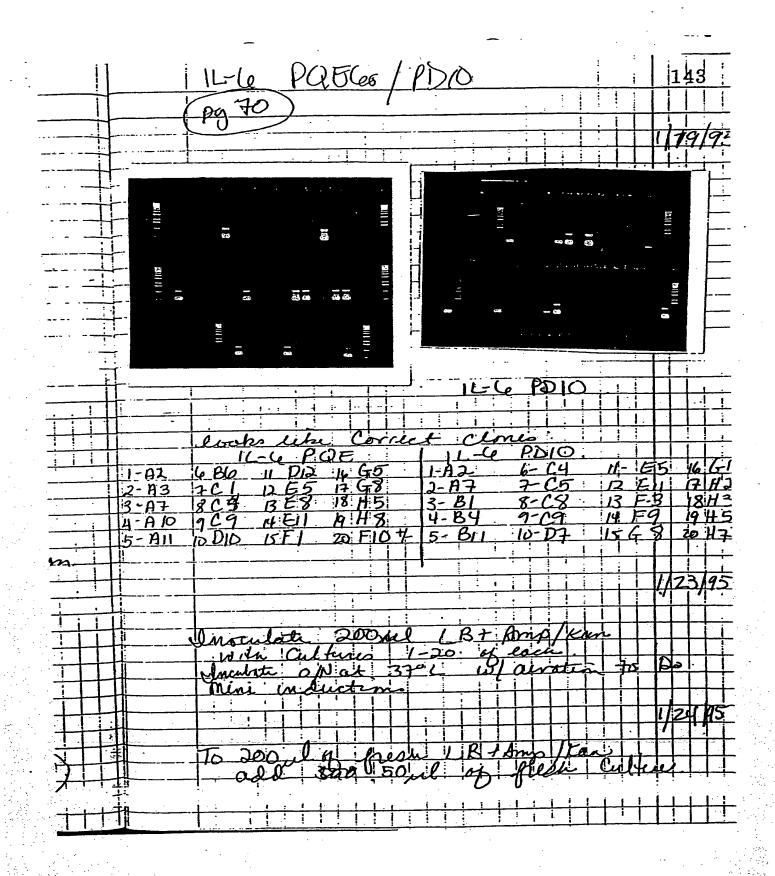


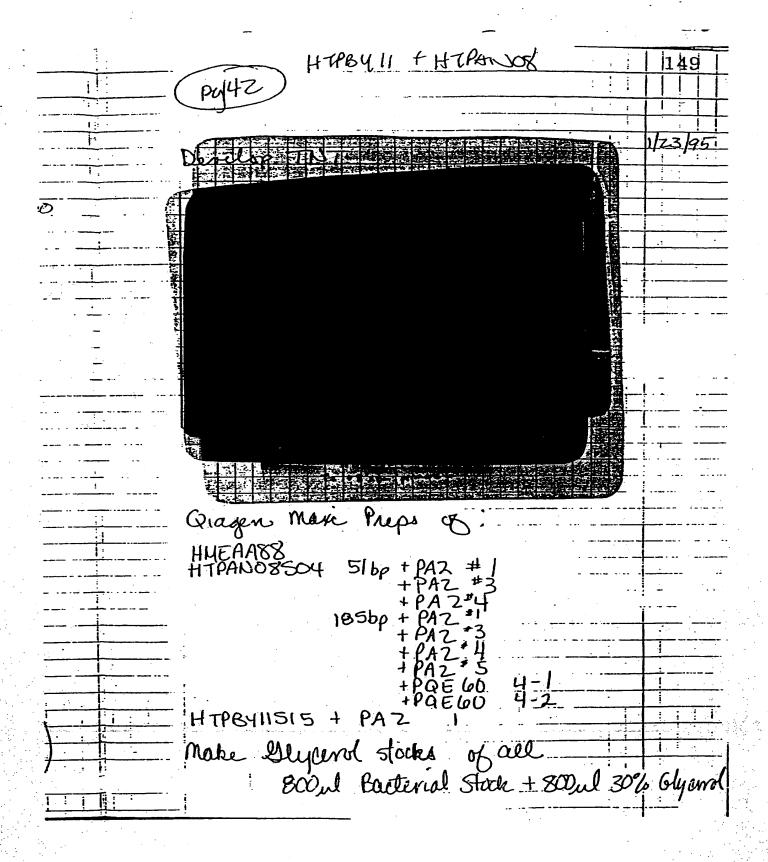
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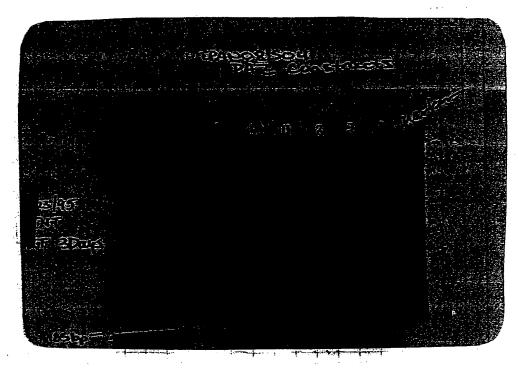
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	Rabbit Reliculacyte Lysate 12.5 17 Buffer 17 Polymeruse 0.5 4mino Aricl Omet 0.5 55 methionine 2 RNAID 0.5 H20 25 min Quick Spin All 5ml of 2x dissociation Buffer Rein 15ml on 15% Desiglands gil Rein of 150 1/2 ms a until by front patrick Tix on 15 that 30 MeOtt Fix on 10 16 Hall 30/1 MeOtt Ar 20 min, at 37°C

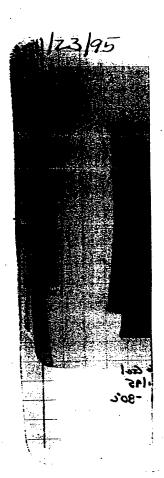






Develop TNT.





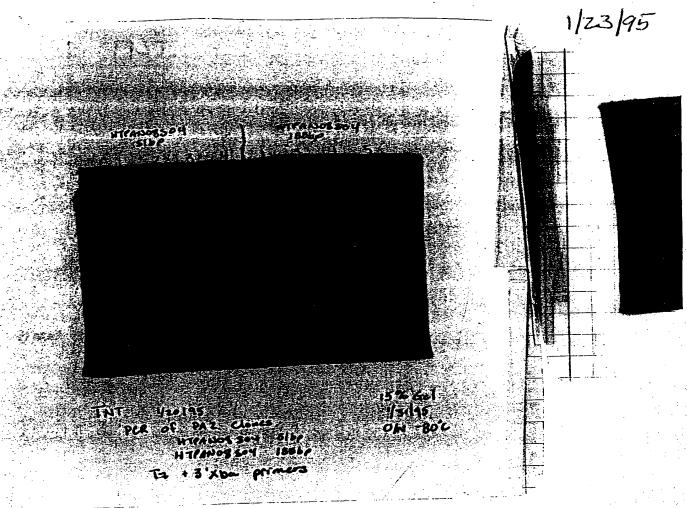
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HTPBYIISIS + PAZ 1

Make Glycerol stocks of all 800 ul Bacterial Stock + 800 ul 30% Glyand

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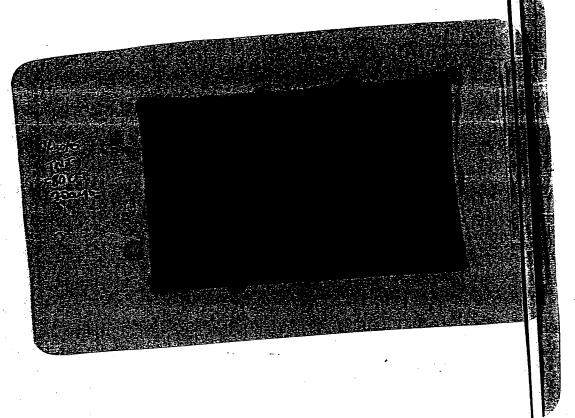




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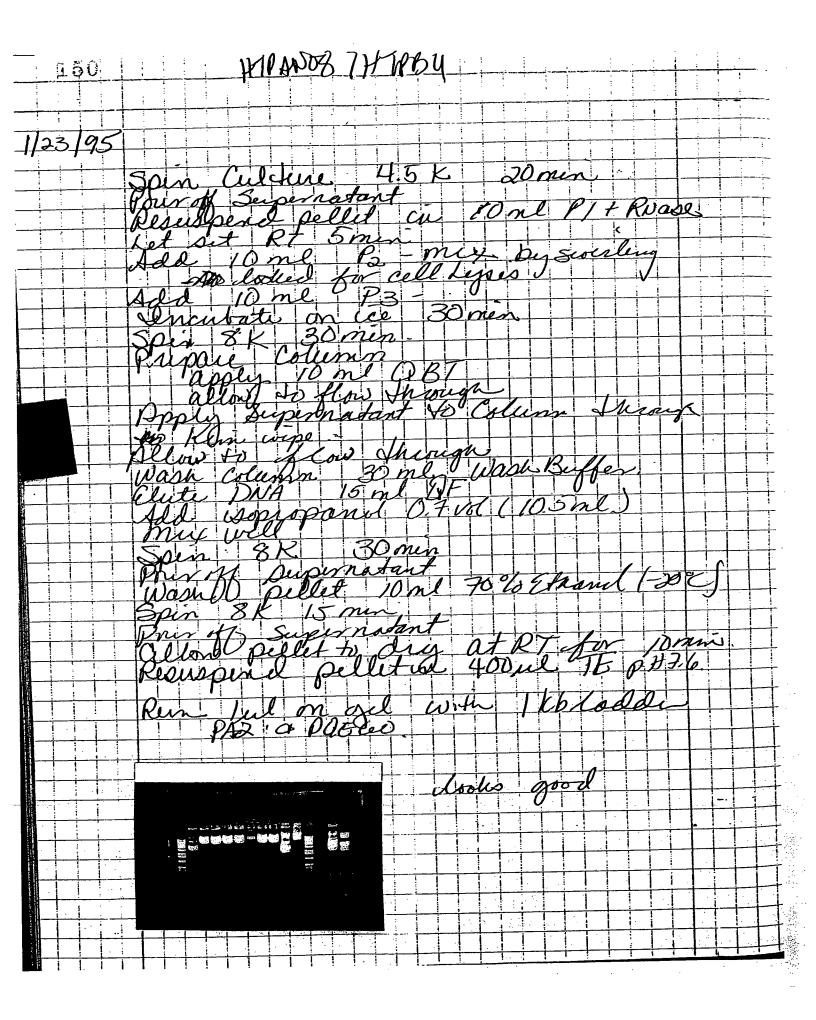
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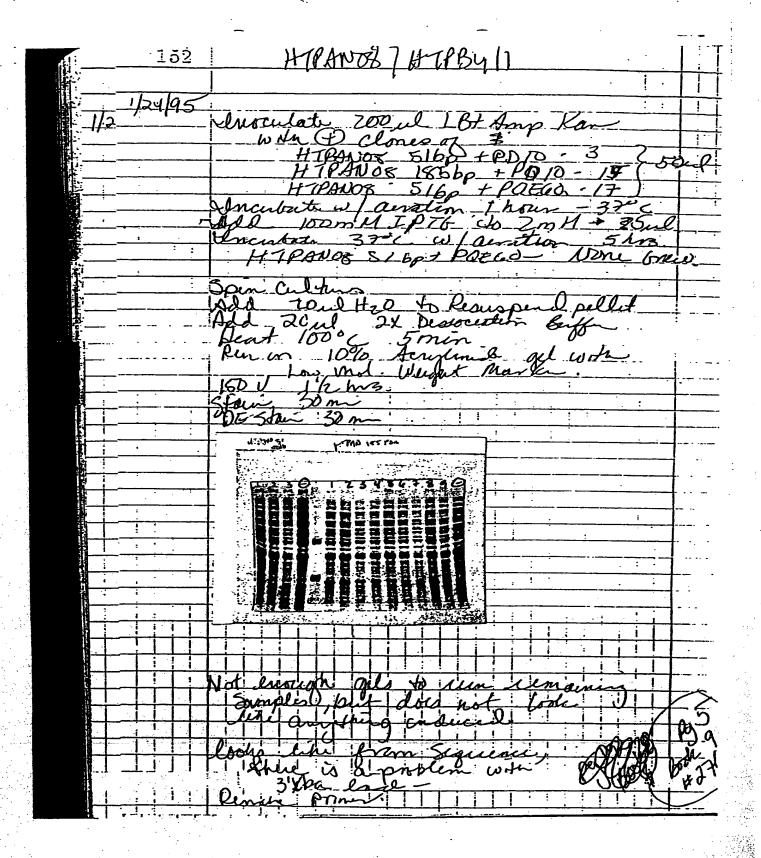
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Make Glycerol stocks of all

800 ul Bacterial Stock + 800 ul 30% Glyand



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Line	With 5ml	H7PAND8	Sou 185 by	
1	with 5 ml	H1PANOS (LI-1)	Sou 185 by	
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